

INTERNATIONAL SEARCH REPORT

National Application No

PCT/GB2004/002358

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H05B3/34 A43B7/02 A43B17/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05B A43B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03/053101 A (FERGUSON PATRICK ; NEIL TECHNOLOGIES LTD (GB)) 26 June 2003 (2003-06-26)	1, 2, 6-11
P, Y	the whole document	3-5, 12-18 19-23
A	---	
Y	US 5 829 171 A (HOOVER JAMES W ET AL) 3 November 1998 (1998-11-03)	3-5, 12-18 19-23
A	the whole document	
Y	GB 2 092 868 A (MB METALS LTD) 18 August 1982 (1982-08-18)	1, 2, 6-8, 12, 17 19-23
A	page 1, line 20-120; claims; figures	
Y	US 4 948 951 A (BALZANO ALFIERO) 14 August 1990 (1990-08-14)	1, 2, 6-8, 12, 17 19-23
A	column 1, line 1-3; claims; figures 1, 3, 6	

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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

13 September 2004

Date of mailing of the international search report

01/10/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 201 825 A (EBNETH HAROLD) 6 May 1980 (1980-05-06) column 3, line 36-42 -----	1
A	US 6 227 458 B1 (LAUGHLIN THOMAS J ET AL) 8 May 2001 (2001-05-08) the whole document -----	1, 12, 19-23
A	US 4 257 176 A (SIEGEL ARNOLD L ET AL) 24 March 1981 (1981-03-24) the whole document -----	1, 12, 19-23
A	WO 03/039417 A (GORIX LTD ; RIX JOHN ROBERT (GB)) 15 May 2003 (2003-05-15) cited in the application the whole document -----	1, 12
A	US 4 798 933 A (ANNOVI GIUSEPPE) 17 January 1989 (1989-01-17) cited in the application the whole document -----	1, 12

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/002358

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03053101	A	26-06-2003	EP 1454508 A1 WO 03053101 A1 GB 2383197 A	08-09-2004 26-06-2003 18-06-2003
US 5829171	A	03-11-1998	EP 0948271 A1 WO 9814082 A1	13-10-1999 09-04-1998
GB 2092868	A	18-08-1982	NONE	
US 4948951	A	14-08-1990	US 4906822 A DE 4025636 A1 FR 2665815 A1 GB 2246690 A	06-03-1990 20-02-1992 14-02-1992 05-02-1992
US 4201825	A	06-05-1980	DE 2743768 A1 BE 870831 A1 CA 1138271 A1 CH 618055 A ,B ES 473747 A1 FR 2404704 A1 GB 2005310 A ,B IE 47384 B1 IT 1099610 B JP 54055700 A JP 62018670 B NL 7809823 A	12-04-1979 28-03-1979 28-12-1982 15-07-1980 01-04-1979 27-04-1979 19-04-1979 07-03-1984 18-09-1985 02-05-1979 23-04-1987 02-04-1979
US 6227458	B1	08-05-2001	NONE	
US 4257176	A	24-03-1981	NONE	
WO 03039417	A	15-05-2003	WO 03039417 A2 GB 2396823 A	15-05-2003 07-07-2004
US 4798933	A	17-01-1989	IT 208028 Z2 DE 3721791 A1 FR 2600902 A1 JP 1198524 A	31-03-1988 07-01-1988 08-01-1988 10-08-1989